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CURRENT STATUS OF CLAIMS WITH CLAIM AMENDMENTS

- 1. (Currently amended) A method of identifying an effective agent that dissociates nuclear hormone receptor activities, comprising the steps of:
- (a) contacting a nuclear hormone receptor with one or more agents under conditions suitable for forming a test complex comprising nuclear hormone receptor dimer, coactivator and corepressor;
- (b) assaying for coactivator association [with] <u>in</u> said test complex; and
- (c) assaying for corepressor association [with] in said test complex,

wherein when said nuclear hormone receptor is a retinoic acid receptor, said corepressor association is increased as compared to corepressor association in a TTNPB control complex and

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- 2. (Currently amended) A method of identifying an effective agent that dissociates nuclear hormone receptor activities, comprising the steps of:
- (a) contacting a nuclear hormone receptor with one or more agents under conditions suitable for forming a ternary complex comprising nuclear hormone receptor dimer, bound cognate response element, coactivator and corepressor;
- (b) assaying for coactivator association [with] in said ternary complex; and
- (c) assaying for corepressor association [with] in said ternary complex,

- 3. (Original) The method of claim 1, wherein said contacting is performed in vitro.
- 4. (Original) The method of claim 1, wherein said nuclear hormone receptor is contacted with said one or more agents in the presence of a eukaryotic cell sample.
- 5. (Original) The method of claim 4, wherein said eukaryotic cell sample comprises viable cells.

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- 6. (Original) The method of claim 4, wherein said eukaryotic cell sample comprises a whole cell lysate.
- 7. (Original) The method of claim 4, wherein said eukaryotic cell sample comprises a fractionated cell lysate.
- 8. (Original) The method of claim 4, wherein said eukaryotic cell sample comprises an exogenous nucleic acid molecule encoding said nuclear hormone receptor.
- 9. (Original) The method of claim 4, wherein said coactivator is endogenous to said cell.
- 10. (Original) The method of claim 4, wherein said corepressor is endogenous to said cell.
- 11. (Currently amended) A method of identifying an effective agent that dissociates nuclear hormone receptor activities, comprising the steps of:
- (a) contacting a nuclear hormone receptor with one or more agents under conditions suitable for forming a test complex comprising nuclear hormone receptor dimer, coactivator and corepressor,

wherein said nuclear hormone receptor is selected from the group consisting of a retinoic acid receptor, retinoid X receptor, thyroid receptor, estrogen receptor and peroxisome proliferator activated receptor;

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- (b) assaying for coactivator association [with] in said test complex; and
- (c) assaying for corepressor association [with] in said test complex, wherein when said nuclear hormone receptor is a retinoic acid receptor, said corepressor association is increased as compared to corepressor association in a TTNPB control complex and

- 12. (Original) The method of claim 11, wherein said nuclear hormone receptor is selected from the group consisting of RAR α , RAR β , RAR γ , RXR α , RXR β and RXR γ .
- 13. (Original) The method of claim 12, wherein said nuclear hormone receptor is a retinoic acid receptor selected from the group consisting of RAR α , RAR β and RAR γ .

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14. (Original) The method of claim 1, wherein said coactivator is selected from the group consisting of

SRC-1/NCoA-1; TIF-2/GRIP-1/NCoA-2; ACTR/p/CIP/AIB1/NCoA-3; p300/CBP; p/CAF; and TATA box binding protein.

- 15. (Original) The method of claim 14, wherein said coactivator is SRC-1/NCoA-1.
- 16. (Original) The method of claim 1, wherein said corepressor is selected from the group consisting of N-CoR and SMRT.
- 17. (Original) The method of claim 16, wherein said corepressor is N-CoR.

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- 18. (Currently amended) A method of identifying an effective agent that dissociates nuclear hormone receptor activities, comprising the steps of:
- (a) contacting a nuclear hormone receptor with one or more agents under conditions suitable for forming a test complex comprising nuclear hormone receptor dimer, coactivator and corepressor;
- (b) assaying for coactivator association [with] <u>in</u> said test complex, wherein said coactivator is selected from the group consisting of SRC-1/NCoA-1, TIF-2/GRIP-1/NCoA-2, ACTR/p/CIP/AIB1/NCoA-3, p300/CBP, p/CAF, and TATA box binding protein (TBP); and
- (c) assaying for corepressor association [with] <u>in</u> said test complex, wherein said corepressor is selected from the group consisting of N-CoR and SMRT, <u>wherein when said nuclear</u> hormone receptor is a retinoic acid receptor, said corepressor association is increased as compared to corepressor association in a TTNPB control complex and

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- 19. (Original) The method of claim 1, wherein step (b) comprises specific binding to said test complex.
- 20. (Original) The method of claim 19, wherein step (b) comprises immunoprecipitation of said test complex.
- 21. (Original) The method of claim 20, wherein said immunoprecipitation is performed using antibody immunoreactive with said nuclear hormone receptor dimer.
- 22. (Original) The method of claim 19, wherein step (b) comprises immunodetection of said coactivator.
- 23. (Original) The method of claim 1, wherein step (c) comprises specific binding to said test complex.
- 24. (Original) The method of claim 23, wherein step (c) comprises immunoprecipitation of said test complex.
- 25. (Original) The method of claim 24, wherein said immunoprecipitation is performed using antibody immunoreactive with said nuclear hormone receptor dimer.
- 26. (Original) The method of claim 23, wherein step (c) comprises immunodetection of said corepressor.